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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/887,939	06/22/2001	Christopher J. Marxen	2001P11061US	7697
7590 12/01/2005 JOEL MILLER, ESQ. 17 WESTWOOD DRIVE SOUTH WEST ORANGE, NJ 07502			EXAMINER	
			ni, suhan	
			ART UNIT	PAPER NUMBER
	,		2646	

DATE MAILED: 12/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/887,939	MARXEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Suhan Ni	2646				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a re- reply within the statutory minimum of thirty riod will apply and will expire SIX (6) MONT atute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 5	<u>/11/2005</u> .					
	This action is non-final.					
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-15 and 17-28 is/are pending in to 4a) Of the above claim(s) is/are with the 5) Claim(s) is/are allowed. 6) Claim(s) 1-15 and 17-28 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	drawn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ a	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the cor						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the paplication from the International But * See the attached detailed Office action for a	ents have been received. ents have been received in Appriority documents have been reau (PCT Rule 17.2(a)).	oplication No received in this National Stage				
Attachment(s) 1) M Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	• ——	ımmary (PTO-413) /Mail Date				
Notice of Draitsperson's Faterit Drawing Review (F10-946) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date		formal Patent Application (PTO-152)				

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DETAILED ACTION

1. In view of the appeal brief filed on 05/11/2005, PROSECUTION IS HEREBY REOPENED.

The finality of the office action is withdrawn and a new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

2. This communication is responsive to the amendment dated 08/23/2004.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) The invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 3. Claims 1, 3-14, 17 and 19-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Topholm (U. S. Pat. 6,879,697).

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Regarding claims 1, 17 and 28, Topholm discloses an apparatus and methods for fabricating the shell for an in-the-ear hearing instrument comprising at least one component or structural feature (Fig. 3), comprising: a scanner (A) for obtaining a digital representation (13) of a portion of the ear canal (12) and optionally a portion of the outer ear (11), and a processor (B-C) for creating a digital representation (16) of the shell that conforms to the scanned digital representation (13) of the ear canal and the outer ear as applicable, wherein the processor comprises: means (B) for creating a digital representation (14) of the shell; and means (C) for adjusting the fit of the digital representation of the outer surface of the shell in the digital representation of the ear canal (col. 7, lines 43-46 and 58-63) as claimed.

Regarding claims 3-6, 13-14, 19-20, 22-23 and 25-26, Topholm et al. further disclose the apparatus for fabricating a shell for an ITE type hearing device, wherein means for adjusting the fit of the outer surface of the shell comprises means for modifying at least one physical dimension of the digital representation of the outer surface of the shell (col. 7, line 58 to col. 8, line 7) as claimed.

Regarding claim 7, Topholm further discloses the apparatus and methods for fabricating the shell for an in-the-ear hearing instrument, wherein creating a digital representation of the shell comprises creating a faceplate (2) integral with the shell.

Regarding claims 8-11, 24 and 27 Topholm further discloses the apparatus and methods for fabricating the shell for an in-the-ear hearing instrument, wherein further includes positioning (C) one or more components or structural features (15) in or on the shell (14) as claimed.

Regarding claims 12 and 21, Topholm et al. further disclose the apparatus for fabricating a shell for an ITE type-hearing device by direct manufacture (D).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 2, 15 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Topholm (U. S. Pat. - 6,879,697).

Regarding claims 2 and 18, Topholm does not clearly teach of reducing the number of points, or pixels/voxels as claimed. Since reducing image resolutions or efficiently and effectively selecting a suitable resolution for image processing is very well known in the art, it therefore would have been obvious to one skilled in the art at the time the invention was made to provide or set reasonably reduced number of pixels for any port of the image processing, especially in 3-D data formation, rendering, reconstruction, and displaying, in order to effectively and efficiently obtain and process the imaging data for further manufacturing the hearing device.

Regarding claims 15, Topholm does not clearly teach for applying an identifier to the shell as claimed. Since providing an identifier for a hearing aid housing is very well known in the art, it therefore would have been obvious to one skilled in the art at the time the invention was made to be motivated to provide suitable identifiers, such as manufacture logo, and/or serial numbers, for the hearing aid shell, in order to effectively and efficiently process and manage the hearing aid.

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Response to Amendment

5. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Applicant's amendment necessitated the new grounds of rejection. Accordingly, **THIS**ACTION IS MADE FINAL. See M.P.E.P. § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

7. Any response to this final action should be mailed to:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

or faxed to:

- (703) 308-9051, (for formal communications; please mark "EXPEDITED PROCEDURE"), or
- (703) 305-9508, (for informal or draft communications, please label "PROPOSED" or "DRAFT")
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suhan Ni whose telephone number is (571)-272-7505, and the

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number for fax machine is (571)-273-7505. The examiner can normally be reached on Monday through Thursday from 10:00 am to 8:00 pm. If it is necessary, the examiner's supervisor, Sinh

N. Tran, can be reached at (571)-272-7564.

9. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov/. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

10. Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the group receptionist whose telephone number is (703) 305-3900.

November 28, 2005

SUHAN NI PRIMARY EXAMMER